



ecology and environment, inc.

12251 UNIVERSAL, TAYLOR, MICHIGAN 48180, TEL. (313) 946-0900
International Specialists in the Environment

US EPA RECORDS CENTER REGION 5



567011

M E M O R A N D U M

DATE: June 8, 1994

TO: Mike Mangini, Project Manager, E & E, Chicago, IL

FROM: Herbert B. Langer, TAT-Chemist, E & E, Detroit, MI *HL*

THRU: Sandra L. Basham, ATATL, E & E, Detroit, MI *SLB*

SUBJ: **Asbestos Analysis Data Quality Assurance Review,
Selesian Prep. Site, Cedar Lake, Lake County, Indiana**

REF: Analytical TDD: T05-9405-811 Project TDD: T05-9405-015
Analytical PAN: EIN0821AAA Project PAN: EIN0821SAA

The data quality assurance review of the fiber sample collected from the Selesian Prep site in Cedar Lake, Indiana has been completed. Determination of Asbestos in bulk samples by Polarized Light Microscopy was performed by STAT Analysis Corporation, Chicago, Illinois.

The sample was numbered 1 corresponding to laboratory number 18603.

Data Qualifications

I Holding Time: Acceptable

The sample was collected May 17, 1994, and analyzed May 24, 1994. The OSWER Directive 9360.4-01 does not include criteria regarding holding times for this method.

II Overall Assessment of Data for Use: Acceptable

There are no criteria specified in the U.S. EPA OSWER Directive 9360.4-01 for the determination of asbestos in samples. The analytical method adopted by the laboratory uses visual comparison of the sample material with standard samples to determine the presence, type, and amount of Asbestos in the sample. Based on the analytical method, the data is considered acceptable for use as reported.

STAT Analysis Corporation

2201 West Campbell Park Drive Chicago, Illinois 60612-3501 312.733.0551 Fax: 312.733.2386

AIHA Accredited #337, NIST/NVLAP Accredited #1202

POLARIZED LIGHT MICROSCOPY RESULTS

ECOLOGY & ENVIRONMENT

STAT Client: 809
STAT Batch: 18603
Report Date: May. 24, 1994

Date Received: May. 20, 1994
Date Analyzed: May. 24, 1994

Client Reference: Proj.#EIN0828FAA

SAMPLE #	% TYPE OF ASBESTOS	NON-ASBESTOS COMPONENTS	COMMENTS
1	50-60% TREMOLITE		

MMMF : Man Made Mineral Fibers

--- : Below detection limits by PLM methodology

ANALYTICAL TDD: TOS 9405 811

NON-CLP SUPERFUND ANALYTICAL SERVICES TRACKING FORM

LABOR PAN #: EW 0821 SAAPROJECT MGR.: John LaTaster

REG. 5

Sampling Period 5/17/96 N/A

A separate form should be completed for each sample group, which is defined as a group of samples that are associated with a unique site, field team, sampling period, and laboratory (if applicable). The number of samples contained in each sample group is determined by the EPA site manager.

1. Site name, city, state: Selesian Prep, Cedar Lake, Indiana
2. Type of activity (check all that apply): ☒ Preliminary Assessment ☐ SSI ☐ LSI
☐ RI/FS ☐ Remedial Design ☐ Remedial Action ☐ Operation/Maintenance ☐ NPL Delisting
☐ Removal Site Eval. ☐ Removal Action ☐ Oil Response ☐ UST Response
☐ PRP Oversight ☐ Other, specify _____
- 3a. Analytical facility/equipment used (check all that apply): ☐ = Facility Code included for use in question 5b.
☒ Fixed laboratory (L) ☐ Fieldable equipment (F) ☐ Temporary on-site laboratory (T)
☐ Mobile laboratory (M) ☐ Portable equipment (P) ☐ Other (O), specify _____
- 3b. Laboratory name (if applicable) STAT City, state Chicago IL
 Subcontractor laboratory (if applicable) _____
- 4a. Funding lead: ☒ Superfund ☐ Other Federal Agency, specify _____
☐ PRP ☐ State, specify _____ ☐ Other, specify affiliation _____
- 4b. Field Contract (Superfund lead only): ☒ TAT ☐ ERCS ☐ FIT ☐ ARCS ☐ TES
☐ ESAT ☐ Other, specify _____
- Contractor Company Ecology & Environment
- 5a. Total number of samples analyzed 1
- 5b. Specific Analysis Information (use additional page, if necessary to identify all analyses):

Analysis Type (e.g., VOAs, Metals, PCBs)	Facility Code (see 3a)	Matrix	#Samples	Sample Preparation Source & Method # (if none, answer 5c.)	Analysis Source & Method # (if none, answer 5c.)
<u>Asbestos</u>	<u>L</u>	<u>Bulk</u>	<u>1</u>	<u>None</u>	<u>→</u>

* #Samples = #Sampling Points + #Field QC Samples

- 5c. If non-standard methods were used, list below and specify if performance data are available for the matrices, analytes, and detection limits used. (Y = yes, N = No, D = Don't Know)

Non-standard sample preparation/cleanup techniques:

Matrices

Analytes

Detection Limits

Non-standard analytical methods:

AsbestosNNN/A

NON-CLP SUPERFUND ANALYTICAL SERVICES TRACKING FORM

6. Reasons for selecting non-CLP analytical services for these samples (check all that apply):

☐ Proximity to site ☒ Direct interaction with lab ☒ Unique parameter analysis ☒ Cost savings
☐ Product control ☒ Ease of acquiring services ☒ Less paperwork ☐ Method flexibility
☒ Quick turnaround ☐ Select locations for further analysis
☐ Other, specify _____

7. Are the environmental data from this sampling event stored electronically and available to EPA personnel?

☐ No ☒ Don't Know ☐ Yes, contained on: ☐ PC ☐ Mainframe (including minicomputers)

8. For laboratory analyses, what was the turnaround time? 21 days Was it met? ☒ Yes ☐ No ☐ Don't Know

- 9a. Document(s) where sampling, analytical, and QC requirements are defined (check all that apply):

☐ QAPjP ☐ SAP ☒ FOP/TDD/TID ☐ Other, specify _____

- 9b. Document(s) approved by: ☐ ESD ☒ WMD ☐ Other, specify affiliation _____

- 9c. For each analytical facility/equipment used, please indicate whether the QA/QC requirements were defined in the above documents (Def) and whether compliance was adequate to meet the intended purpose (Met).

	Fixed lab		Mobile lab		On-Site lab		Fieldable		Portable		Other	
	Def	Met	Def	Met	Def	Met	Def	Met	Def	Met	Def	Met
Analytical Method(s)	Y	Y										
Sample preservation & handling	N											
Sample chain-of-custody	Y	Y										
Sample holding times	N						XX	XX	XX	XX		
Detection/quantification limits	N											
Equipment maintenance/calibration	N											
Documentation	Y	Y										
Frequency & type of QC samples	N											

Y = yes N = no R = data not reviewed for this criterion (only applicable for Met column)

10. Was the laboratory audited as part of the Superfund program by:

☒ EPA or EPA Contractor ☐ PRP ☐ Not Audited ☐ Don't Know

Comments: _____

- 11a. Were data reviewed for technical limitations? ☒ Yes ☐ No (go to 12)

- 11b. Reviewed by: ☐ ESD/ESAT ☐ User ☒ Other, specify affiliation TAT E+E

- 11c. Extent of data review: ☒ Full review of 100 % of the data
☐ Partial review of _____ % of the data

- 11d. Review criteria used: ☐ CLP National Functional Guidelines

☒ QA/QC Guidance for Removal Activities (ERT Guidance);

☐ Other, specify _____

12. Were the quality and quantity of data sufficient to meet the intended purpose?

☒ Yes ☐ No (explain below) ☐ Don't Know (explain below)

Reason: _____

Completed by:

Herbert B. Langer

Name and Affiliation

Date

recycled paper
recycled paper

ecology and environment
ecology and environment

MAY 24 '94 04:48PM

P.1

STAT Analysis Corporation

2201 West Campbell Park Drive Chicago, Illinois 60612-3501 312.733.0551 Fax: 312.733.2386

AIHA Accredited #337, NIST/NVLAP Accredited #1202

POLARIZED LIGHT MICROSCOPY RESULTS
-----**ECOLOGY & ENVIRONMENT**STAT Client: 809
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1	50-60% TREMOLITE		

MMMF : Man Made Mineral Fibers

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**• DRAFT DOCUMENT •
NOT VALIDATED**

MAY 19 1994 03:20PM
Sims Analysis Corporation

F.1

2201 West Campbell Park Drive Chicago, Illinois 60612-3501 312.733.0551 Fax: 312.733.2386

AFLA Accredited #337, NIST/NVLAP Accredited #1202

FAX TRANSMITTAL FORM

TO: To: Mary Ripp
COMPANY: E + E
FAX NUMBER: 312/663-1090
FROM: Scott Rattiff
DATE: 5/15/94
NUMBER OF PAGES: (Including Transmittal Sheet) 2

Please call (312) 733-0551 if transmittal is incomplete.

Mary

Call if Questions

Thanks

Scott



ecology and environment, inc.

111 W. JACKSON BLVD., SUITE 1200, CHICAGO, ILLINOIS 60604

INTERNATIONAL SPECIALISTS In the ENVIRONMENT

PHONE: (312) 663-9415

TELECOPIER: (312) 663-1090

TELECOPIER TRANSMISSION FORM

DATE: 5/19/94 TIME: 9:07 TOTAL NO. OF PAGES: 4
(including this form)

TO: Elizabeth

COMPANY: Stat Analysis

TELECOPIER PHONE NO.: _____

FROM: Mary Ripp.

SPECIAL INSTRUCTIONS: Please complete the bottom half of the analytical bid
request. Also include costs for QA/QC packages and sample disposal costs,
if any.

For Operator's Use Only

JOB CHARGE: _____

SENT BY: _____

Analytical Bid Request/Analysis

From: Ecology & Environment, Inc.
111 West Jackson Blvd., 12th floor
Chicago, IL 60604

Attn: MARY Ripp
To: STAT Analysis Corp.
2201 W. Campbell Park Drive
Chicago, IL 60612

Attn: Elizabeth
Analytical TDD/PAN: T05- 9405-811
S.P.

Bid Deadline: 5/19/94 10:00 am.
CST

Phone #: 312/ 733-0551
FAX #: 312/ 733-~~6666~~ 2386

Please respond to this request by faxing the completed form to Ecology and Environment, Inc.

Phone #: 312-663-9415
FAX #: 312-663-1090

Project TDD/PAN: T05-
S.P.

Estimated Sample Receipt Date: 5/20/94

Number of Samples	Matrix	Parameter/Method	Turnaround Time		MS/MSD	Detection Limits
			Verbal/FAX	Hard Copy		
1	asbestos	asbestos - PLM	14 calendar days	21 calendar days	N/D	Method.
		OSWER QA Level II				

See Attachments for Deliverable Requirements

This Section to be Completed by Laboratory

Unit Price Breakdown

Parameter/Method	Matrix	Base Analysis Cost	Surcharges			Total Unit Cost
			Rush Turnaround	MS/MSD	Other	

QA/QC Costs

Blank: _____

Sample Disposal: _____

QC Data Package: _____

Other: _____

Other Cost Not Listed Above: (explain on separate form if necessary) _____

Is Your Company Classified as:

Small Business: ☐ Y ☐ N ID#: _____

Small Disadvantaged Business: ☐ Y ☐ N ID#: _____

Woman-owned Business: ☐ Y ☐ N

What County Is Your Business Located in? _____

Bid Total

Laboratory Signature

ecology and environment, inc.

Analytical Bid Request Analysis

From: Ecology & Environment, Inc.
111 West Jackson Blvd., 12th floor
Chicago, IL 60604

Attn: MARY RIPP

To: CBC

140 East Ryan Ave.

Oak Creek, WI 53154

Attn: LeAnn Sanger

Analytical TDD/PAN: 105- 9405-811

S.P.

Bid Deadline:

Phone #: 414/764-7005

FAX #: 414/764-0486

Please respond to this request by faxing the completed form to Ecology and Environment, Inc.

Phone #: 312-663-9445

FAX #: 312-663-1090

Project TDD/PAN: 105-

S.P.

Estimated Sample Receipt Date: 5/20/94

Number of Samples	Matrix	Parameter/Method	Turnaround Time		MS/MSD	Detection Limits
			Verbal/FAX	Hard Copy		
1	asbestos	asbestos - P.M.	14 calendar day	21 calendar day	NO	Method
		OSWER QA Level II				

See Attachments for Deliverable Requirements

This Section to be Completed by Laboratory

Unit Price Breakdown

Parameter/Method	Matrix	Base Analysis Cost	Subcharges			Total Unit Cost
			Fast Turnaround	MS/MSD	Other	
EPA	bulk sample	\$9.50	\$20 - \$34/hr			
			\$15 2-4 days			

QA/QC Costs

Blank: No charge

Sample Disposit: No charge

QC Data Package: Same as sample cost

Other:

Other Cost Not Listed Above: (optional not separable from if necessary)

Is Your Company Classified as:

Small Business:

☐ Y

☒ N

ID#:

Small Disadvantaged Business:

☐ Y

☒ N

ID#:

Woman-owned Business:

☐ Y

☒ N

What County is Your Business Located in?

Milwaukee County, WI

LeAnn Sanger

Laboratory Signature

Bid Total

05/19/94

MAY-19-1994 10:50 FROM: CHEM 810

TO

13126631090 P.01



COMPANY NAME:

Ecology & Environment, Inc

CONTACT NAME:

Mary Ripp

SENDER:

Kae Donhevy

FAX: (414) 764-0486

DESCRIPTION:

Please call about QC Package Requirements - I'm also forwarding you a Credit Application that we need for new clients. We look forward to doing business with you! Call if you have Questions.

FAX COVER NOTICE OF CONFIDENTIALITY

The information contained in this facsimile message is intended only for the personal and confidential use of the designated recipient(s) named above. This message may be a consultant-client communication, and as such is privileged and confidential. If the reader of this message is not the intended recipient or an agent responsible for delivering it to the intended recipient, you are hereby notified that you have received this document in error, and that any review, dissemination, distribution or copying of this message is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return the original message to us by mail at our expense. Thank you.

Thank YouKae DonhevyAsst. Lab. Supervisor

NUMBER OF PAGES: (including this page)

3

DATE SENT:

5/19/94

IF THERE ARE ANY PROBLEMS WITH THIS TRANSMISSION, PLEASE CALL CSC ENVIRONMENTAL LABORATORIES, INC. (414) 763-7460 IMMEDIATELY.

FAX NUMBER:

(312) 463-1090

(lg-C011)FORMS\FAXCOVER



ecology and environment, inc.

111 W. JACKSON BLVD., SUITE 1200, CHICAGO, ILLINOIS 60604

INTERNATIONAL SPECIALISTS In the ENVIRONMENT

PHONE: (312) 663-9415

TELECOPIER: (312) 663-1090

TELECOPIER TRANSMISSION FORM

DATE: 5/19/94 TIME: _____ TOTAL NO. OF PAGES: 4
(including this form)

TO: Le Ann Seager

COMPANY: CBC

TELECOPIER PHONE NO.: _____

FROM: MARY Ripp

SPECIAL INSTRUCTIONS: Please complete the bottom half of the analytical bid
request. Also include costs for QA/QC packages and sample disposal costs,
if any.

For Operator's Use Only

JOB CHARGE: _____

SENT BY: _____

Analytical Bid Request/Analysis

From: Ecology & Environment, Inc.
111 West Jackson Blvd., 12th floor
Chicago, IL 60604

Attn: MARY Ripp

To: CBC
140 East Ryan Road
Oak Creek, WI 53154

Attn: LeAnn Seager

Analytical TDD/PAN: T05- 9405-811
S.P.

Bid Deadline: _____

Phone #: 414/764-7005
FAX #: 414/764-0486

Please respond to this request by faxing the completed form to Ecology and Environment, Inc.

Phone #: 312-663-9415
FAX #: 312-663-1090

Project TDD/PAN: T05-
S.P.

Estimated Sample Receipt Date: 5/20/94

Number of Samples	Matrix	Parameter/Method	Turnaround Time		MS/MSD	Detection Limits
			Verbal/FAX	Hard Copy		
1	asbestos	asbestos - PLM	14 calendar days	21 calendar days	N/A	Method.
		OSWER QA Level II				

See Attachments for Deliverable Requirements

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Parameter/Method	Matrix	Base Analysis Cost	Surcharges			Total Unit Cost
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QA/QC Costs

Blank: _____

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QC Data Package: _____

Other: _____

Other Cost Not Listed Above: (explain on separate form if necessary) _____

Is Your Company Classified as:

Small Business: ☐ Y ☐ N ID#: _____

Small Disadvantaged Business: ☐ Y ☐ N ID#: _____

Woman-owned Business: ☐ Y ☐ N

What County Is Your Business Located in? _____

Bid Total

Laboratory Signature

GRAND TOTAL	38.00
-------------	-------



7132 LAKEVIEW PARKWAY W. DRIVE • INDIANAPOLIS, IN 46268
(317) 293-1533 • 800-486-1533

Indoor Air Quality
Ventilation Design
Absence Surveys
Bulk Analysis
Air Monitoring
Industrial Hygiene
Epidemiology
Microbiology
Radon Testing

DATE: 5-19-94
TO: Mary Ripp / Ecology + Environment
FROM: Ann Baithus
RE: Bid

This transmission including the cover sheet, will be 2 pages in length.

Comments: Enclosed please find bid for
1 PLM Sample

The term "Sick Building Syndrome" refers to a variety of indoor air pollution problems which adversely effect the health of the building occupants.



ecology and environment, inc.

111 W. JACKSON BLVD., SUITE 1200, CHICAGO, ILLINOIS 60604

INTERNATIONAL SPECIALISTS In the ENVIRONMENT

PHONE: (312) 663-9415

TELECOPIER: (312) 663-1090

TELECOPIER TRANSMISSION FORM

DATE: 5/19/94 TIME: 8:45 am TOTAL NO. OF PAGES: 4
CST (including this form)

TO: Joe Ledlie

COMPANY: Micro Air

TELECOPIER PHONE NO.: _____

FROM: MARY Ripp.

SPECIAL INSTRUCTIONS: Please complete the bottom half of the analytical bid
request. Also include costs for QA/QC packages and sample disposal costs,
if any.

For Operator's Use Only

JOB CHARGE: _____

SENT BY: _____

ECOLOGY & ENVIRONMENT, INC.
LABORATORY DATA PACKAGE DELIVERABLE REQUIREMENTS

MISCELLANEOUS ANALYSES

1. Case Narrative: -Observations and/or Problems.
-Methods used.
2. Sample Holding Times: -Extraction dates.
-Analysis dates.
3. Analytical Results for:
 - Samples.
 - Calibration or Standardization.
 - Duplicates.
 - Reagent Blank Results.
 - Spike Recoveries.
4. Copies of Raw Data for all Analytical Results.
5. Compound Quantitation Calculations: -Dilutions.
-Concentrations.
-Dry weights.
-Etc.
6. Chain-of-Custody: Photocopy of COC form.

ECOLOGY & ENVIRONMENT, INC.

**ADDITIONAL TERMS AND CONDITIONS
APPLICABLE TO
SUBCONTRACTOR ANALYTICAL SERVICES
UNDER GOVERNMENT CONTRACTS**

A. DISPOSAL - Unless otherwise directed by E & E, the seller shall be responsible for disposition or ultimate disposal of any remaining sample materials in compliance with all applicable Federal, State, and Local laws and regulations. Also, upon E & E's request, the seller shall promptly provide at its' own expense all pertinent information and records to document that such disposition or ultimate disposal has been performed in compliance with governing regulations.

B. NOTIFICATION - The seller shall notify E & E immediately of any circumstances encountered which may impair the satisfactory performance of services in accordance with project specifications (including but not limited to holding time requirements, satisfactory QC spike recoveries and analysis of specified QA samples). Failure to notify E & E in a timely manner and to implement corrective actions as mutually agreed to shall warrant contract termination.

C. DELINQUENCY - It is understood that upon failure by the seller to perform any element of this Order, as outlined in the scope of work, design, specifications, methods of analysis, documentation, and timely delivery of articles or services hereunder, E & E shall make an equitable adjustment to the amount due according to the following schedule:

1. Failure to meet non-standard delivery date shall result in forfeiture of all surcharge or premium price differentials;
2. Failure to meet standard delivery date shall result in a penalty, applied to the total order cost, of 2% for each 24-hour period up to 10 calendar days, and 5% for each 24-hour period thereafter, up to a maximum of 75% total cost reduction. Further failure to meet the requirements of this Order shall constitute Breach of Contract.

STAT Analysis Corporation

2201 West Campbell Park Drive Chicago, Illinois 60612-3501 312.733.0551 Fax: 312.733.2386

AIHA Accredited #337, NIST/ NVLAP Accredited #1202

May. 25, 1994

MARY JANE RIPP
ECOLOGY & ENVIRONMENT
111 W. JACKSON BLVD.
CHICAGO, IL 60604

Invoice #7771

ECOLOGY & ENVIRONMENT
Client Reference: Proj.#EIN0828FAA
STAT Client: 809
Batch Number: 18603

ANALYTICAL FEES - PLM 72 hr. turnaround

1 samples @ \$12.00/sample \$12.00

TOTAL AMOUNT DUE \$12.00

INVOICE TERMS NET 30 DAYS

Please send remittance to : Stat Analysis Corporation
2201 W. Campbell Park Drive
Chicago, IL 60612

OK to pay
6/21/94
Mary J. Ripp

ZT2054-05, EIN0821AAA, 12.00, 27

To BUFF - 6/21/94

International Specialists in the Environmental Sciences

Ecology and Environment, Inc.
111 West Jackson Blvd., 12th Floor
Chicago, IL 60604

BILLING ADDRESS SAME AS SHIP TO

ATTENTION: Mary J. Ripp

STAT Analysis Corporation
2201 W. Campbell Park Dr.
TO Chicago, IL 60612

Attention: Scott Ratliff

Our order number must appear on all correspondence, invoices, packing lists, and packages.

NO 95441

TDD MAIL INVOICE IN DUPLICATE

~~PURCHASE REQ. NO.~~ T05-9405-811 ~~DATE:~~ 05/26/94

SHIP VIA: _____ FOB: _____

TERMS:_____ **DELIVERY REQUIRED:**_____

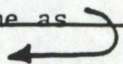
ITEM NUMBER	DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT
A	Asbestos: Asbestos PLM	1✓	12.00✓	12.00✓
	QA Level II			
	TAT Verbal: 2 wks/Hard Copy: 3 wks			
	Lab shall be responsible for proper disposal of all samples.			
	Invoices must reflect unit prices and appropriate quantities as indicated herein, and should reference both the Purchase Order number and the TDD number (both are found in the top right-hand corner of the Purchase Order).			
ZT2054.EIN0821AAA	\$12.00	#27	Not to Exceed TOTAL	12.00

White: Vendor Copy Green: Vendor File Copy
Pink: Requisition/Receiving Copy Yellow: Numerical File Copy

BUYER'S SIGNATURE

ecology and environment, inc.
PURCHASE REQUISITION

SELESIAN PREP.

Vendor: <u>STAT ANALYSIS Corp.</u>	Date: <u>5/17/94</u>	PR No.: _____
Address: <u>2201 W. Campbell Park Dr.</u>	Ship VIA: _____	Date Required: _____
<u>CHICAGO, IL 60612</u>	LIN: _____	PO No.: _____
Contact: <u>Scott Rathiff</u> Phone: <u>312/733-0551</u>	Contract No.: _____	Account: <u>27</u>
	Project Number/PAN: <u>7T2054 / 705-9405-811</u>	<u>EIN0821AAA</u>
Ship to: <u>Ecology & Environment, Inc.</u>	Billing Address: <u>Same as</u>	
<u>111 West Jackson Blvd.</u>		
<u>Chicago IL 60604</u>		
Attention: <u>Mary Jane Ripp</u>		

Item	Description	Quantity	Unit Price	Amount
A	ASBESTOS : ASBESTOS PLM	1	12.00	12.00
	OSWER QA Level II			
	Turnaround Times : verbal: 14 calendar days			
	hard copy : 21 calendar days			
		TOTAL		12.00

Purpose/Justification (Continue on Back if Necessary):

- Laboratory analysis not available within the TAT contract.
- Solicited only technical bidders.
- OSC requested analyses.
- Lowest bidder selected.

ALTERNATE SOURCES

Item	Vendor	Comment	Amount
A	CBC	higher bid.	19.00
A	Micro Air	higher bid	38.00

Printed Name of Requestor:

Mary J. Ripp

Signature of Requestor:

Mary J. Ripp

Approved by (Date)

1. [Signature] 5/23/94 3. _____
2. Webster Kapsner 5/26/94 4. _____

[illegible]

[illegible]

